

System Operations Services

Ops Data Policy and Management

Presented to: IPACG PM/18

Date: September 12, 2016



**Federal Aviation
Administration**

Agenda

- **Background**
- **Policy vs Practice**
- **Current Activities**
- **Open Issues**
- **International Data Sharing**
- **Security Requirements**



Executive Order (May 9, 2013)

- **Making Open and Machine Readable the New Default for Government Information**
- **Office of Management and Budget (OMB) shall issue an Open Data Policy**
- **Agencies shall implement the requirements of the Open Data Policy**

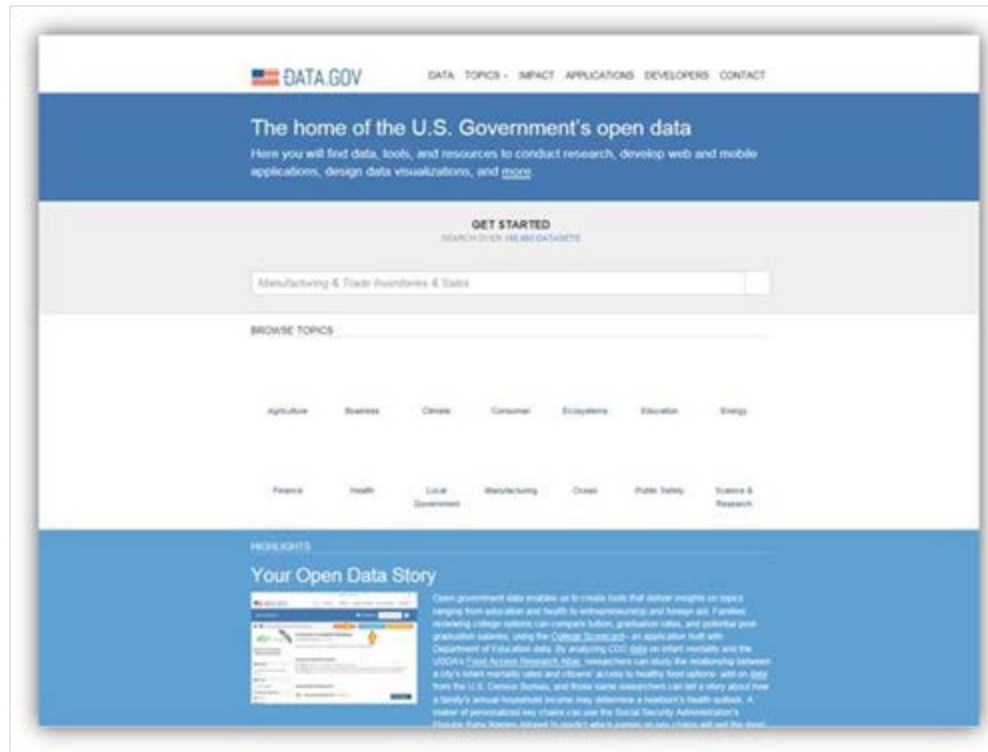


Memorandum M-13-13 (May 9, 2013)

- **Collect or create information in a way that supports downstream information processing and dissemination activities**
- **Build information systems to support interoperability and information accessibility**
- **Strengthen data management and release practices**
- **Strengthen measures to ensure that privacy and confidentiality are fully protected and that data are properly secured**
- **Incorporate new interoperability and openness requirements into core agency processes**



WWW.DATA.GOV



Policy vs. Practice

OMB M13-13 External Policy Guidance

- **Collect or create information in a way that supports downstream information processing and dissemination activities**
- **Build information systems to support interoperability and information accessibility**
- **Strengthen data management and release practices**
 - Create/Maintain Enterprise Data Inventory
 - Create/Maintain Public Data Listing
 - Create a process to engage with customers to facilitate and prioritize data release
 - Clarify roles and responsibilities for promoting effective data release
- **Strengthen measures to ensure that privacy and confidentiality are protected and data is secured**
- **Incorporate new interoperability and openness requirements into core agency processes**



FAA 1375.1E Order Policy Requirements

- **FAA information and data are enterprise resources and shall be managed from an enterprise-wide perspective.**
- **Enterprise information architecture and data architecture will be defined within the EA and managed under the EA governance structure**
- **Lines of Business and Staff Offices (stewards) are responsible for the timeliness, accuracy, clarity, availability and security of information and data under their stewardship**
- **FAA shall maintain an Enterprise Information and Data Management Program ... through governance through the IDAB**
- **Communities of Interest (COIs) will be formed to address and resolve issues around information sharing and sanctioned by the EABs.**
- **Identifies Key Roles and Responsibilities**
 - FAA Management Board,
 - Chief Information Officer,
 - FAA Data Registrar,
 - Enterprise Information/Data Architect
 - LOB Stewards



**Federal Aviation
Administration**

Current Topics

- **Clarify operational data release policy**
 - Need for improved guidance
 - Custom terms and conditions for operational data access
 - Improved definition of operational data across its lifecycle: pre-decisional operational, real time data and post operational data.
 - Release of general purpose data vs. NAS operational data
 - Improved compliance mechanisms
 - Improve record keeping and compliance mechanisms across the lifecycle of data
- **Developing NAS Data Release Board (NDRB) process improvements**
 - Need to address operational data release considerations earlier in the lifecycle, adopt effective data asset portfolio management approaches
 - NDRB process needs clarity and improvements; reinforce scope and participation
 - Recognizing eligibility requirements: there are classes of operational data “consumers” and we must assess qualifications for access
- **Monitoring requirements and activities require more active engagement**
 - Redouble our efforts to maintain a bridge between the ATO programs and organizations
 - Need common situational awareness of program requirements, activities and progress.
 - Need structure and rhythm to allow for teamwork
- **Need for consistent implementation of policy across increments**
 - Help reduce duplication of operational data across multiple system feeds
 - Improve interpretation and meaning of data
- **Explore potential of SWIM to facilitate management of operational data policy**
 - Role based access by consumer eligibility and qualifications
 - Improvements in policy compliance monitoring



Open Issues

- **Addressing aircraft blocking BARR at Industry / Compliance**
- **Determine need for Role Based Access to Operational Data**
 - Tiered User Categories
 - Terms and Conditions for Data Access by Category
 - Possibly different levels of service
 - Affects SWIM and other distributions of data
 - Legal discussion relates to a “warranted authorizing official (AO)”
- **Identifying and safeguarding “pre-decisional” operational data**
 - E.g., CDM Data
- **Strengthen measures to ensure that safety, privacy, security, propriety, and confidentiality are fully protected and that data are properly secured**



Open Issues (continued)

- **Need to develop and implement audit and tracking procedures to support compliance and analysis of data and information delivery**
- **Facilitate two-way data exchange via SWIM**
 - Access agreement vs MOA (AO)
- **Identify and reduce duplicate operational data**
 - EDCTs is an example



International Data Sharing

- **Needs to be included in an Air Navigation Services agreement**
 - May include restrictions on release of technical data to third parties
- **Existing agreements are being reviewed to ensure they comply with the Open Data Policy**



Example: TFMS Data Sharing with Trinidad & Tobago

- **Data being shared:**
 - Flight and position messages
 - Flow messages
 - Terminal and surface data messages
 - TFMS status messages
- **Details are in the TFM Data Java Messaging Service Description Document (JMSDD) at nsrr.faa.gov**



Security Requirements

- **Secure telecommunications for two-way TFM data exchange must follow:**

- FAA Telecommunications Infrastructure (FTI) National Air Space (NAS) Boundary Protection System (NBPS) User's Guide for External Users

http://www.faa.gov/nextgen/programs/swim/documentation/media/user-guide/FTI_NBPS_User_Guide.pdf

- Enterprise Security Gateway VPN Requirements

http://www.faa.gov/nextgen/programs/swim/documentation/media/user-guide/VPN_Technical_Requirements.pdf

